(Complete Publication List)

JOURNAL PUBLICATIONS:

1. Luqi, Z. Guan, V. Berzins, L. Zhang, D. Floodeen, V. Coskun, J. Puett, and M. Brown, "Requirements Document Based Prototyping of CARA Software", *International Journal on Software Tools for Technology Transfer* (To Appear).

2. L. Wills, F. Kordon, and Luqi, "Introduction to the Special Issue on Rapid Systems Prototyping", *Special Issue on "Rapid System Prototyping", Journal of Systems & Software* (To Appear).

3. X. Liang, L. Zhang, and Luqi, "Automatic Prototype Generating via Optimized Object Model", *ACM AdaLetters*, Vol.23, No.2, June 2003, pp 22-31.

4. F. Kordon and Luqi, "An Introduction to Rapid System Prototyping", *IEEE Transactions on Software Engineering*, Vol. 28, No. 9, Septembe, 2002, pp. 817 – 821.

5. N. Nada, M. Shing, V. Berzins, and Luqi, "Automated Prototyping Tool-kit (APT)", *Journal of Information Sciences*. March 2002, Vol. 140, No. 3-4, pp. 241-253.

6. Luqi and M. Broy, "Software Engineering Beyond our Planning Horizon: Automation for Computer-Based Systems", *Science of Computer Programming*, Special Issue on Methods of Software Design: Techniques and Applications. January 2002, Vol. 42, No. 1: pp. 1-10.

7. V. Berzins, M. Shing, Luqi, M. Saluto, and J. Williams, "Architectural Re-engineering of Janus using Object Modeling and Rapid Prototyping", *Journal of Design Automation for Embedded Systems*. August 2000, Vol. 5, No. 3/4, pp.251-263.

8. J. Guo and Luqi, "Object Modeling to Re-engineer Legacy Systems", *International Journal of Software Engineering and Knowledge Engineering*, August 2000, Vol. 10, No. 4, pp. 471-485.

9. Luqi and D. Zhang, "Approximate Declarative Semantics for Rule Base Anomalies", *Knowledge-Based Systems*, 1999, Vol.12, pp.341-353.

10. V. Berzins, M. Shing, and Luqi, "Architectural Re-engineering of Janus Using Object Modeling and Rapid Prototyping", *Journal of Design Automation for Embedded Systems*, (Special Issue on RSP'99) 1999, Preface.

11. Luqi, "Software Engineering to Our Planning Horizon", *Electronic Notes in Theoretical Computer Science*, Elsevier Science, 1999, Vol. 25.

12. Luqi, "Engineering Automation for Computer Based Systems", *Electronic Notes in Theoretical Computer Science*, Elsevier Science, 1999, Vol. 25.

13. M. Shing, Luqi, V. Berzins, M. Saluto, J. Williams, J. Guo, and B. Shultes, "The Story of Re-engineering 350,000 Lines of FORTRAN Code", *Electronic Notes in Theoretical Computer Science*, Elsevier Science, 1999, Vol. 25.

14. Luqi, C. Chang, and H. Zhu, "Specifications in Software Prototyping", *Journal of Systems and Software*, August 1998, Vol. 42, No. 2, pp.189-197.

15. Luqi and J. Goguen, "Formal Methods: Promises and Problems", *IEEE Software*. January 1997, Vol. 14, No. 1, pp. 73-85.

16. D. Cooke and Luqi, "Logic Programming and its Relationship to Software Maintenance", *Annuals of Mathematics and Artificial Intelligence 21*, 1997, No. 2-4, pp. 221-229.

17. Luqi and M. Shing, "Real-Time Scheduling for Software Prototyping", *Journal of Systems Integration*. *(Special issue on Computer-Aided Prototyping),* 1996, Vol. 6, No. 1-2, pp.41-72.

18. J. Goguen, D. Nguyen, J. Messeguer, Luqi, D. Zhang, and V. Berzins, "Software Component Search", *Journal of Systems* Integration (*Special issue on Computer Aided Prototyping),.* 1996, Vol. 6, No.1-2, pp.93-134.

19. V. Berzins and Luqi, "Software Evolution in Prototyping", *Chinese Journal of Advanced Software Research*, 1996, Vol. 3, No. 3, pp. 260-276.

20. Luqi, "System Engineering and Computer-Aided Prototyping", *Journal of Systems Integration*. (Special issue on Computer Aided Prototyping), 1996, Vol. 6, No.1, pp.15-17.   *(Guest Editor's Introduction).*

21. Luqi and D. Cooke, "How to Combine Nonmonotonic Logic and Rapid Prototyping to Help Maintain Software", *International Journal of Software Engineering and Knowledge Engineering*, March 1995, Vol. 5, No. 1, pp. 89-118.

22. B. Ramesh and Luqi, "An Intelligent Assistant for Requirements Validation", *Journal of Systems Integration*, 1995, Vol. 5, No. 2, pp. 157-177.

23. D. Dampier, Luqi, and V. Berzins, "Automated Merging of Software Prototypes", *Journal of Systems Integration*, February 1994, Vol. 4, No. 1, pp. 33-49.

24. Luqi, "Real-Time Constraints in a Rapid Prototyping Language", *Journal of Computer Languages*, Spring 1993, Vol. 18, No. 2, pp.77-103.

25. A. Combelles and Luqi, "Advancing Europe's Fortunes", *IEEE Software,* November 1993, pp. 14-20.

26. V. Berzins, Luqi, and A. Yehudai, "Using Transformations in Specification-Based Prototyping", *IEEE Transactions on Software Engineering*, May 1993, Vol. 19, No. 5, pp. 436-452.

27. B. Kraemer, Luqi and V. Berzins, "Compositional Semantics of a Real-Time Prototyping Language", *IEEE Transactions on Software Engineering*, May 1993, Vol. 19, No. 5, pp. 453-477.

28. Luqi and W. Royce, "Status Report: Computer-Aided Prototyping", *IEEE Software*. November 1992, Vol. 9, No. 6, pp.77-81.

29. Luqi and ed. D. Strok, "Women in AI", *IEEE Expert*, August 1992, pp.7-22. *(Invited paper).*

30. Luqi, "Computer-Aided Prototyping for a Command-and-Control System Using CAPS", *IEEE Software*, January 1992, Vol. 9, No. 1, pp. 56-67.

31. Luqi and M. Shing, "CAPS – A Tool for Real-Time System Development and Acquisition", *Naval Research Reviews*, 1992, Vol. XLIV *(44)*, pp.12-16.

32. R. Steigerwald, Luqi, and J. McDowell, "A CASE Tool for Reusable Software Component Storage and Retrieval in Rapid Prototyping", *Information and Software Technology*, England, November 1991, Vol. 38, No. 9, pp. 698-706.

33. Luqi, "Computer-Aided Software Prototyping", *IEEE Computer,* September 1991, Vol. 24, No. 9, pp. 111-112. *(Invited paper).*

34. P. Treleaven, H. Aiso, M. Meth, A. Jones, R. Sprague, T. Duzer, G. Moore, A. Weaver, V. Cerf, M. Mercer, K. Boykin, D. Cheriton, T. Lewis, Luqi, and L. Deutsch, "Viewpoints (computing in the 1990's)", *IEEE Computer*, September 1991, Vol. 24, No. 9, pp. 98-113.

35. Luqi, "The Role of Prototyping Languages in CASE", *International Journal of Software Engineering and Knowledge Engineering*, June 1991, Vol. 1, No. 2, pp.131-149.

36. B. Kraemer and Luqi, "Toward Formal Models of Software Engineering Processes", *Journal of Systems and Software*, April 1991, Vol. 15, No. 1, pp. 63-74.

37. Luqi, "A Graph Model for Software Evolution", *IEEE Transactions on Software Engineering*", August 1990, Vol. 16, No. 8, pp.917-927.

38. Luqi, "Automated Prototyping and Data Translation", *Journal of Data and Knowledge Engineering*, July 1990, Vol. 5, pp.167-177.

39. Luqi, P. Barnes, and M. Zyda, "Graphical Tool for Computer-Aided Prototyping", *Information and Software Technology*, England, April 1990, Vol. 36, No. 3, pp. 199-206.

40. V. Berzins and Luqi, "An Introduction to the Specification Language Spec", *IEEE Software*, March 1990, Vol. 7, No. 2, pp.74-84. *(Initially appeared as Technical Report NPS 52-88-031).*

41. Luqi, "Rapid Prototyping Languages and Expert Systems", *IEEE Expert*, Summer 1989, Vol. 4, No. 2, pp.2-5.

42. Luqi, "Software Evolution through Rapid Prototyping", *IEEE Computer*, May 1989, Vol. 22, No. 5, pp. 13-25.

43. Luqi, "Knowledge-Based Support for Rapid Software Prototyping", *IEEE Expert,* Winter 1988, Vol. 3, No. 4, pp. 9-15, 18.

44. Luqi, V. Berzins, and R. Yeh, "A Prototyping Language for Real-Time Software", *IEEE Transactions on Software Engineering*, October 1988, Vol. 14, No. 10, pp.1409-1423.

45. Luqi and V. Berzins, "Rapidly Prototyping Real-Time Systems", *IEEE Software*, September 1988, Vol. 5, No. 5, pp.25-36.

46. Luqi and M. Ketabchi, "A Computer-Aided Prototyping System", *IEEE Software*, March 1988, Vol. 5, No. 2, pp. 66-72.

CONFERENCE PUBLICATIONS AND PRESENTATIONS:

1. Luqi and L. Zhang, "Quantitative Metrics for Risk Assessment in Software Projects", to appear in *Proceedings of IASTED International Conference on Software Engineering and Applications (SEA 2003)*, Marina del Rey, CA, USA, November 3-5, 2003.

2. Y. Qiao, Luqi, and L. Zhang, "A Framework for Complex Systems of Embedded Systems Development", to appear in *Proceedings of IASTED International Conference on Software Engineering and Applications (SEA 2003)*, Marina del Rey, CA, USA, November 3-5, 2003.

3. Luqi, Y. Qiao, and L. Zhang, "A Computational Model for Complex Systems of Embedded Systems", to appear in *Post-workshop Proceedings of Monterey Workshop 2002*, LNCS, Springer.

4. Luqi and L. Zhang, "Documentation Driven Agile Development for Systems of Embedded Systems", *Monterey Workshop Series: Workshop on Software Engineering for Embedded Systems: From Requirement to Implementation,* Chicago, IL, September 24-26, 2003.

5. V. Berzins, Y. Qiao, and Luqi, "Information Consistency Checking for Documentation Driven Development for Complex Embedded Systems*", Monterey Workshop Series: Workshop on Software Engineering for Embedded Systems: From Requirement to Implementation,* Chicago, IL, September 24-26, 2003.

6. Luqi, X. Liang, L. Zhang, and V. Berzins, "Software Documentation-Driven Manufacturing", to appear in *Proceedings of The 27th Annual International Computer Software and Applications Conference, COMPSAC 2003*, Dallas, Texas, November 3-6, 2003.

7. Luqi, X. Liang, M. Brown, and C. Williamson, "Formal Approach for Software Safety analysis and Risk Assessment Via an Instantiated Activity Model", *Proceedings of 21st International System Safety Conference*, Ottawa, Ontario, Canada, August 4-8, 2003, pp. 1060-1069.

8. X. Liang, J. Puett, V. Berzins, and Luqi, "Synthesizing Architectural Approach via a Compatible Composition Model", *Proceedings of International Conference on Computer, Communication and Control Technologies*, Orlando, FL, USA, July 31, August 1-2, 2003, pp. 321-326.

9. Luqi and Z. Guan, "A Software Engineering Tools for Requirement Document based Prototyping", *Proceedings of the 7th World Multiconference on Systemics, Cybernetics and Infromatics*, Orlando, Florida, USA, July 27 - 30, 2003, Volume VI, pp.237-243.

10. X. Liang, J. Puett and Luqi, "Synthesizing Approach for Perspective-based Architecture Design", *Proceedings of 14th IEEE International Workshop on Rapid System Prototyping*, San Diego, USA, June 9-11, 2003, pp. 218-225.

11. Luqi, M. Shing, J. Puett, V. Berzins, Z. Guan, Y. Qiao, L. Zhang, N. Chaki, X. Liang, W. Ray, M. Brown and D. Floodeen, "Comparative Rapid Prototyping, A Case Study", *Proceedings of 14th IEEE International Workshop on Rapid System Prototyping*, San Diego, USA, June 9-11, 2003, pp. 210-217.

12. Luqi and Z. Guan, "A Computer Tool for Modeling C4I Applications", *Proceedings of 8th International Command and Control Research and Technology Symposium*, Washington, DC, June 17-19, 2003. (No page number used)

13. X. Liang, J. Puett, and Luqi, "Perspective-based Architectural Approach for Dependable Systems", *Proceedings of Workshop on Software Architecture for Dependable Systems, International Conference on Software Engineering 2003*, Portland, Oregon, May 6, 2003, pp. 1-6.

14. Z. Guan and Luqi, "A Software Prototyping Framework and Methods for Supporting Human's Software Development Activities", *Proceedings of Workshop on Bridging the Gaps Between Software Engineering and Human –Computer Interaction, International Conference on Software Engineering 2003*, Portland, Oregon, May 3-11, 2003, pp. 114-121.

15. Z. Guan, Luqi, G. Dai and Y. Li, "Computer Aided Prototyping for Dependable Interactive System Development", *Proceedings of the 5th Asia-Pacific Conference on Computer Human Interaction, Science Press,* Beijing, China, November, 2002, pp.480-490.

16. Luqi, Y. Qiao, and L. Zhang, "Computational Model for High-confidence Embedded System Development", *Monterey Workshop -- Radical Innovations of Software and Systems Engineering in the Future,* Venice, Italy, October, 7-11, 2002, pp.265-303.

17. J. Drummond, Luqi, W. Kemple, M. Auguston, and N. Chaki. "Quality of Service Behavioral Model from Event Trace Analysis", *Proceedings of the 7th international Command and Control Research and Technology Symposium (CCRTS 2002),* Quebec City, Canada, 16-20 September 2002.

18. W. Ray, Luqi, and V. Berzins, "Optimizing Systems by Work Schedules (a Stochastic Approach)", *Proceedings of the Workshop on Software Performance (WOSP 2002),* Rome, Italy, 23-26 July 2002, pp.75-82.

19. M. Harn, S. Hsu, V. Berzins, and Luqi, "Battlefield Object Control via Internet Architecture", *Proceedings of the 2002 Command and Control Research and Technology Symposium*, Naval Postgraduate School, Monterey, CA, 11-13 June 2002. (No page number used)

20. P. Young, V. Berzins, J. Ge, and Luqi, "Using an Object Oriented Model for Resolving Representational Differences between Heterogeneous Systems", *Proceedings of 17th ACM Symposium on Applied Computing*, Madrid, Spain, 10-14 March 2002, pp.976-983.

21. V. Berzins, M. Auguston, and Luqi, "Generating Test Cases for System Generators", *Proceedings of the Working Conference on Complex and Dynamic Systems Architecture (CDSA),* Brisbane, Queensland, Australia, 12-14 December 2001. (no page numbers were used).

22. Luqi, V. Berzins, J. Ge, M. Shing, M. Auguston, B. Bryant, and B. Kin, "DCAPS – Architecture for Distributed Computer Aided Prototyping System", *Proceedings of the 12th International IEEE Workshop on Rapid Systems Prototyping (RSP'2001),* Monterey, CA, 25-27 June 2001, pp.103-109.

23. M. Shing, Luqi, and V. Berzins, "The Use of Computer-Aided Prototyping for Reengineering Legacy Software", *Proceedings Monterey Workshop 2001, Engineering Automation for Software Intensive System Integration*, NPS, Monterey, CA, 18-22 June 2001, pp.89-100.

24. M. Murrah, C. Johnson, and Luqi, "Enhancements & Extensions of Formal Models for Risk Assessment in Software Projects", *Proceedings Monterey Workshop 2001, Engineering Automation for Software Intensive System Integration*, NPS, Monterey, CA, 18-22 June 2001, pp. 120-127.

25. P. Young, V. Berzins, J. Ge, and Luqi, "Use of Object-Oriented Model for Interoperability Wrapper-Based Translator for Resolving Representational Differences between Heterogeneous Systems", *Proceedings Monterey Workshop 2001, Engineering Automation for Software Intensive System Integration*. NPS, Monterey, CA. 18-22 June 2001，pp. 170-177.

26. N. Cheng, V. Berzins, Luqi, and S. Bhattacharya, "Java Wrappers for Automation Interoperability", *Proceedings of The International Workshop on Databases in Networked Information Systems (DNIS '2000),* University of Aizu, Japan, Springer LNCS, 4-6 December 2000, pp. 45-64.

27. J. Ge, V. Berzins, and Luqi, "Computer Aided Prototyping in a Distributed Environment", *Proceedings of International Congress on Intelligent Systems and Applications (ISA'2000), Symposium on Interactive and Collaborative Computing*, Australia, 12-15 December 2000.

28. V. Berzins, M. Shing, Luqi, M. Saluto, and J. Williams, "Architectural Re-engineering of Janus using Object Modeling and Rapid Prototyping", *Proceedings of The Medical Device Software Safety Workshop*, Silver Spring, MD, 20 November 2000, pp.216-221.

29. V. Berzins, Luqi, and W. Ray, "Adaptive Distributed Object Architectures", *Proceedings of the AFCEA Federal Database Colloquium 2000*, September 2000, pp. 313-330.

30. Luqi, V. Berzins, M. Shing, J.C. Nogueira, and R. Riehle, "Evolutionary Computer Aided Prototyping System (CAPS)", *Proceedings of the TOOLS USA 2000 Conference*, Santa Barbara, CA. 30 July – 3 August 2000. (no page numbers used).

31. N. Nada, Luqi, D. Rine, and E. Damiani, "A Knowledge-Based Adaptive Distance Learning System for Software Reuse Technology", *Twelfth International Conference on Software Engineering and Knowledge Engineering SEKE2000*, Chicago, IL, 6-8 July 2000.

32. J. Nogueira, Luqi, V. Berzins, and N. Nada, "A Formal Risk Assessment Model for Software Evolution", *Proceedings of the 12th International Conference on Software Engineering and Knowledge Engineering*, Chicago, IL, 6-8 July 2000.

33. N. Cheng, V. Berzins, Luqi, and S. Bhattacharya, "Automated Generation of Wrappers for Interoperability", *Proceedings of The 2000 Command and Control Research and Technology,* CA, July 2000. (no page numbers used).

34. M. Shing, C. Eagle, Luqi, G. Kreeger, and I. Duralioglu, "The Evolution of a Distributed Computer-Aided Prototyping System", *Proceedings of The 11th IEEE International Workshop on Rapid System Prototyping (RSP 2000),* Paris, France, 21-23 June 2000.

35. J.C. Nogueira, Luqi, and V. Berzins, "Risk Assessment in Software Requirement Engineering", *Proceedings of 5th World Conference on Integrated Design & Process Technology*, Dallas, TX, 4-8 June 2000.

36. J.C. Nogueira, C. Jones, and Luqi, "Surfing the Edge of Chaos: Applications to Software Engineering", *Proceedings of 2000 Command and Control Research and Technology Symposium*, Monterey, CA, 26-28 June 2000.

37. J.C. Nogueira, Luqi, and S. Bhattacharya, "A Risk Assessment Model for Software Prototyping Projects", *Proceedings of the 11th IEEE International Workshop on Rapid System Prototyping,* Paris, France, 21-23 June 2000, pp. 28-33.

38. N. Nada, Luqi, D. Rine, and K. Jaber, "Product Line Stakeholder Viewpoint and Validation Models", *Proceedings of The 22nd International Conference on Software Engineering (ICSE2000), The Workshop on Software Product Lines: Economics, Architectures, and Implications*, Limerick, Ireland, 4-11 June 2000.

39. N. Nada, Luqi, D. Rine, and E. Damiani, "A Knowledge-Based System for Software Reuse Technology Practices", *Proceedings of The 22nd International Conference on Software Engineering (ICSE2000), The 3rd International Workshop on Intelligent Software Engineering WISE3*, Limerick, Ireland, 4-11 June 2000.

40. N. Nada and Luqi, "Automated Prototyping Toolkit (APT)", *The 22nd International Conference on Software Engineering (ICSE2000), The 2nd International Symposium on Constructing Software Engineering Tools (COSET2000),* Limerick, Ireland, 4-11 June 2000.

41. J.C. Nogueira, Luqi, V. Berzins, and N. Nada, "A Formal Risk Assessment Model for Software Evolution", *The 22nd International Conference on Software Engineering (ICSE200), 2nd International Workshop on Economics-Driven Software Engineering Research (EDSER-2),* Limerick, Ireland, 4-11 June 2000.

42. J. Guo and Luqi, "Reuse and Re-engineering of Legacy Systems", *Proceedings of The Fifth World Conference on Integrated Design & Process Technology (2000 IDPT Conference),* Dallas, TX, 4-8 June 2000.

43. J. Guo and Luqi, "A Survey of Software Reuse Repositories", *Proceedings of the IEEE International Conference and Workshop on the Engineering of Computer Based Systems (IEEE ECBS'2000),* Edinburgh, Scotland, 6-7 April 2000, pp. 92-100.

44. N. Nada, Luqi, D. Rine, and K. Jaber, "Using Abstract Adapters for Distributed and Reusable Components", *Distributed Networked Computing for a Secure Defense*, Washington, DC, 24-25 April 2000.

45. E. Damiani, Luqi, N. Nada, D. Rine, M. Shing, and S. Tuwaim, "Software Reuse Technology Practices and Assessment Tool-kit", *Proceedings of the 34th International Conference on Technology of Object-Oriented Languages and Systems (TOOLS 34)*, 2000, pp. 307-316.

Deleted: P

46. N. Nada, Luqi, M. Shing, D. Rine, E. Damiani, and S. Tuwaim, "Software Reuse Technology Practices and Assessment Tool-kit", *Proceedings of 34th International Conference on Technology Oriented Languages and Systems, TOOLS 34,* 2000, pp. 307-316.

47. N. Cheng, V. Berzins, Luqi, and S. Bhattacharya, "Interoperability with Distributed Objects Through Java Wrapper", *Proceedings of the Annual International Computer Software Applications Conference, COMPSAC 2000*, 2000, pp. 479-485.

48. V. Berzins, M. Shing, Luqi, M. Saluto, and J. Williams, "Object-Oriented Modular Architecture for Ground Combat Simulation", *Proceedings of the 2000 Command and Control Research and Technology Symposium*, NPS, Monterey, CA, 26-28 June 2000.

49. Luqi, V. Berzins, M. Shing, N. Nada, and C. Eagle, "Computer Aided Prototyping System (CAPS) for Heterogeneous Systems Development and Integration", *Proceedings of the 2000 Command and Control Research and Technology Symposium*, Monterey, CA, 26-28 June 2000. (no page numbers used).

50. Luqi and J.C. Nogueria, "A Risk Assessment Model for Evolutionary Software Projects", *Proceedings of the 2000 Monterey Workshop on Modeling Software Systems Structures in a Fastly Moving Scenario*, Santa Margherita Ligure, Italy, 13-16 June 2000, pp.208-215.

51. M. DaBose and Luqi, "Digital Network Integration and Control across Heterogeneous Communications Boundaries", *Proceeding IEEE the 1st Int. Workshop on Real-Time Mission-Critical Systems Grand Challenge Problems*, Scottsdale, Arizona, 30 November 1999.

52. M. Harn, V. Berzins, Luqi, and A. Mori, "Software Evolution Process via a Relational Hypergraph Model", *Proceeding IEEE/IEEJ/JSAI Int. Conf. on Intelligent Transportation Systems*, Tokyo, Japan, 5-8 October 1999, pp. 599-604.

53. M. DaBose and Luqi, "Digital Network Integration and Control Across Heterogeneous Communications Boundaries", *Software Technology Conference*, El Segundo, CA, 23 September 1999, *Real Time Systems IEEE Workshop*, Scottsdale, AZ, December 1999.

54. M. DaBose and Luqi, "Heterogeneous Information Exchange Methodology", *Proceedings of Processing Systems Technology Network Conference*, El Segundo, CA, 29 September 1999.

55. M. Harn, V. Berzins, and Luqi, "A Formal Model for Software Evolution", *Proceeding 3rd International Conference on Computational Intelligence and Multimedia Applications*, New Delhi, India, 23-26 September 1999, pp. 143-147.

56. M. Harn, V. Berzins, and Luqi, "Computer-Aided Software Evolution Based on a Formal Model", *Proceeding 13th International Conference on Systems Engineering*. Las Vegas, NV, 9-12 August 1999, pp. CS 55-60.

57. J.Guo and Luqi, "Object Modeling to Re-engineer Legacy Systems", *Proceedings of the 11th International Conference on Software Engineering and Knowledge Engineering*, Kaiserslautern, Germany, 17-19, June 1999, pp. 346-353.

58. Luqi and V. Berzins, "Reliability in Software Requirement Engineering", *Proceedings of the Fourth World Conference on Integrated Design & Process Technology,* Kusadasi, Turkey, 27 June–2 July 1999.

59. M. Harn, V. Berzins, Luqi, and W. Kemple, "Evolution of C4I Systems", *Proceeding 1999 Command and Control Research and Technology Symposium*, U.S. Naval War College, Newport, RI, 29 June – 1 July 1999, pp. 1361-1380.

60. M. Shing, Luqi, V. Berzins, M. Saluto, and J. Williams, "Architectural Re-engineering of Janus using Object Modeling and Rapid Prototyping", *Proceedings of the 10th IEEE International Workshop on Rapid System Prototyping*, Clearwater, FL, 16-18 June 1999, pp. 216-221.

61. M. Harn, V. Berzins, and Luqi, "A Dependency Computing Model for Software Evolution", *Proceedings of the Eleventh International Conference on Software Engineering And Knowledge Engineering*, Kaiserslautern, Germany, 17-19 June 1999, pp. 278-282.

62. M. Harn, V. Berzins, and Luqi, "Computer-Aided Software Evolution Based on Inferred Dependency," Conference on Advanced Information Systems Engineering, 6th Doctoral Consortium, Heidelberg, Germany, June 14-15, 1999, pp. 116-127.

63. M. Harn, V. Berzins, and Luqi, "Software Evolution via Reusable Architecture", *Proceedings 1999 IEEE Conference and Workshop on the Engineering of Computer Based Systems (ECBS),* Nashville, TN, 7-12 March 1999, pp. 11-17.

64. Luqi and J. Gou, "Toward Automated Retrieval for a Software Component Repository", *Proceedings of International Conference and Workshop on the Engineering of Computer Based Systems (ECBS),* Nashville, TN, 7-12 March 1999, pp. 99-105.

65. M. Shing, Luqi, V. Berzins, M. Saluto, J. Williams, J. Guo, and B. Shultes, "The Story of RE-engineering 350,000 Lines of FORTRAN Code", *Proceedings of the 1998 ARO/ONR/NSF/DARPA Monterey Workshop on Engineering Automation for Computer Based Systems,* Carmel, CA, 23-26 October 1998, pp. 151-160.

66. Luqi, "Engineering Automation for Computer Based Systems", *Proceedings of ARO/NSF/ONR Workshop,* Carmel, CA, 26-29 October 1998, pp. 3-8.

67. M. Shing, V. Berzins, Luqi, M. Holden, and C. Eagle, "Master of Science in Software Engineering via Distance Learning", *Proceedings of Ada Software Engineering and Education Symposium*, Monterey, CA, 27-30 July 1998.

68. Luqi, "Engineering Automation for Computer Based Systems", *Proceedings of the 1998 ARO/ONR/NSF/DARPA Monterey Workshop on Engineering Automation for Computer Based Systems*, Monterey, CA, April 1998, pp. 3-8.

69. Luqi and M. Broy, "Software Engineering to our Planning Horizon", *Proceedings of the 1998 ARO/ONR/NSF/DARPA Monterey Workshop on Engineering Automation for Computer Based Systems*, Monterey, CA, April 1998, pp. 1-2.

70. M. Dabose and Luqi, "Autonomous Agents Design for Digital Network Maximization in Joint C4I System", *Proceedings of Modeling and Simulation of Microsystems, Semiconductors Sensors and Actuators Conference*, Santa Clara, CA, 6-8 April 1998.

71. D. Zhang and Luqi, "The Pacific Rim Process Engineering Research", *Proceedings of Asia Pacific Forum on Software Engineering*, International Conference on Software Engineering, Kyoto, Japan, 21 April 1998. (no page numbers used).

72. Luqi, "Software Process Improvement − Lessons Learned", *Proceedings of Asia Pacific Forum on Software Engineering,* International Conference on Software Engineering, Kyoto, Japan, 20 April 1998. (no page numbers used).

73. T. Leonard, V. Berzins, Luqi, and M. Holden, "Gathering Requirements from Remote Users", *Proceedings 9th International Conference on Tools with Artificial Intelligence*, Newport Beach, CA, 3-8 November 1997, pp. 462-471.

74. Luqi and V. Berzins, "Engineering Automation for Computer Based Systems", *Proceedings 1997 Workshop on Virtual Universities*, Newport Beach, CA, 4 November 1997.

75. Luqi, "Formal Models and Prototyping", *Proceedings 1997 ARO Workshop on Requirements Targeting Software and System Engineering - Towards a Scientific Basis*, Munich, Germany, 12-14 October 1997, pp. 183-194.

76. V. Berzins, O. Ibrahim, and Luqi, "A Requirements Evolution Model for Computer Aided Prototyping", *Proceedings of the 9th International Conference on Software Engineering and Knowledge Engineering*, Madrid, Spain, 17-20 June 1997, pp. 38-47.

77. V. Berzins, Luqi, and M. Shing, "Scheduling Real-Time Software Prototypes", *Proceedings of the 2nd International Symposium on Operations Research and its Applications*, Guilin, China, 11-13 December 1996, pp. 614-623.

78. D. Rusin, Luqi, and M. Scanlon, "SIDS Wireless Acoustic Monitor (SWAM)", *Proceedings of the 21st Int. Conf. on Lung Sounds*, The International Lung Sounds Association, Chester, England, 4-6 September 1996.

79. Luqi, "Specifications in Software Prototyping", *Proceedings of the 8th International Conference on Software Engineering and Knowledge Engineering*, Lake Tahoe, CA, 10-12 June 1996, pp. 189-197.

80. Luqi, V. Berzins, D. Nguyen, and D. Zhang, "Multi-Level Filtering for Software Component Retrieval", *Proceedings of the 1996 International Conference on Circuits and System Sciences*, Shanghai, China, 20-25 June 1996, pp. 284-287.

81. M. Shing, V. Berzins, and Luqi, "Computer Aided Prototyping System (CAPS)", *Proceedings of the Software Technology Conference*, Salt Lake City, UT, 21-26 April 1996, pp. 462-463. (Proceedings were distributed on CD ROM only, \stc96cd\vendor\exhibit.pdf)

82. Luqi and V. Berzins, "Software Architecture in Computer-Aided Prototyping", *Proceedings of 1995 Monterey Workshop on Increasing the Practical Impact of Formal Methods in Computer Aided Software Development: Software Architecture*, Monterey, CA, 12-14 September 1995, pp. 44-57.

83. Luqi, "Monterey Workshop '95: Specification Based Software Architectures – Increasing the Practical Impact of Formal Methods for Computer-Aided Software Development", *Proceedings of 1995 Monterey Workshop on Increasing the Practical Impact of Formal Methods in Computer Aided Software Development: Software Architecture*, Monterey, CA, 12-14 September 1995, pp. 1-4.

84. Luqi and V. Berzins, "Logic, Software Engineering and Prototyping", *Proceedings of the Logic and Software Engineering Workshop*, Software Institute, National Academy of Science, Beijing, China, 15 August 1995.

85. V. Berzins and Luqi, "Software Evolution in Prototyping", *Proceedings of the Logic and Software Engineering Workshop*, Software Institute, National Academy of Science, Beijing, China, 15 August 1995.

86. D. Zhang and Luqi, "Formal Analysis of Inconsistency and Redundancy in Knowledge Bases", *Proceedings of IJCAI'95 Workshop on Validation & Verification of Knowledge Based Systems*, Montreal, Quebec, Canada, 19 August 1995, pp. 110-116.

87. V. Berzins, Luqi, and M. Shing, "Computer Aided Prototyping System", *Proceedings of 1995 International Conference on Software Engineering and Data Engineering*, Washington, DC, 22-24 June 1995, pg. 499.

88. M. Shing and Luqi, "Functional Specification and Prototyping for a Generic C3I Workstation", *Proceedings of 1995 Symposium on Command and Control Research and Technology*, Washington, DC, 19-23 June 1995, pp. 119-131.

89. M. Shing, V. Berzins, and Luqi, "Computer Aided Prototyping System (CAPS)", *Proceedings of the 7th International Conference on Software Engineering and Knowledge Engineering*, Rockville, MD, 22-24 June 1995.

90. J. Goguen and Luqi, "Formal Methods and Social Context in Software Development", *Proceedings of the Sixth International Joint Conference on the Theory and Practice of Software Development TAPSOFT95*, Aarhus, Denmark, 22-26 May 1995, pp. 62-81.

91. D. Dampier, R. Byrnes, M. Kindl, and Luqi, "Rapid Prototyping of Army Embedded Software Systems", *Proceedings of Seventh Annual Software Technology Conference*, Salt Lake City, UT, 9-14 April 1995. (no page numbers used).

92. D. Dampier, V. Berzins, Luqi, M. Shing, D. Dolk, and C. Rasmussen, "A Slicing Method for Semantics-Based Change-Merging of Software Prototypes", *Proceedings of Computers in Engineering Symposium,* Houston, TX, 29 January - 1 February 1995, PD-Vol.67, Software Systems in Engineering, ASME 1995, Edited by D. Cooke et al., pp. 87-92.

93. Luqi, J. Goguen, V. Berzins, and D. Dampier, "Engineering Support for Software Evolution", *Proceedings of Computers in Engineering Symposium*, Houston, TX, 29 January - 1 February 1995, PD-Vol.67, Software Systems in Engineering, ASME 1995, Edited by D. Cooke et.al., pp. 161-171.

94. Luqi, J. Goguen, and V. Berzins, "Formal Support for Software Evolution", *Proceedings of Monterey Workshop 94,* Monterey, CA, 7-9 September 1994, pp. 10-21.

95. Luqi, "Monterey Workshop 94: Software Evolution-Increasing the Practical Impact of Formal Methods in Computer Aided Software Development", *Proceedings of Monterey Workshop 94*, Monterey, CA, 7-9 September 1994, pp. 1-9.

96. Luqi, "Achieving Integration Via Prototyping", *Proceedings of the 3rd International Conference on Systems Integration,* Säo Paulo, Brazil, 15-19 August 1994.

97. Luqi and J. Goguen, "Suggestions for Progress in Software Analysis, Synthesis and Certification", *Proceedings of the 6th International Conference on Software Engineering and Knowledge Engineering*, Jurmala, Latvia, 20-23 June 1994, pp. 501-507.

98. S. Badr and Luqi, "Automation Support for Concurrent Software Engineering", *Proceedings of the 6th International Conference on Software Engineering and Knowledge Engineering.* Jurmala, Latvia, 20-23 June 1994, pp. 46-53.

99. Luqi and M. Shing, "Teaching Hard Real-Time Software Development via Prototyping", *Proceedings of the International Workshop on Software Engineering Education.* International Conference on Software Engineering, Sorrento, Italy, 21 May 1994, pp. 199-211.

100. Luqi, H. Yang, and X. Zhang, "Constructing an Automated Testing Oracle: An Effort to Produce Reliable Software", *Proceedings of COMPSAC 94*, Taipei, Taiwan, 7-9 November 1994, pp. 228-233.

101. D. Cooke and Luqi, "Formal Support for Software Maintenance", *Proceedings COMPSAC 93*", Phoenix, AZ, 3-5 November 1993, pp. 402-407.

102. Luqi, "Computer-Aided Prototyping - Status and Experiments", *Proceedings of International Symposium and Workshop on New Models for Software Architecture*, Kanazawa, Japan, 8 November 1993, pp. 23-30.

103. Luqi and J. Goguen, "Some Suggestions for Using Formal Methods in Software Development", *Proceedings AFOSR/ARO/ONR Workshop on Increasing the Practical Impact of Formal Methods for Computer-Aided Software Development*, Monterey, CA, October 1993, pp. 7-11.

104. Luqi, M. Shing, and J. Brockett, "Real-Time Scheduling in System Prototyping", *Proceedings Fourth International Workshop on Rapid System Prototyping*, Research Triangle Park, NC, 28-30 June 1993, pp. 150-163.

105. S. Badr and Luqi, "A Version and Configuration Model for Software Evolution", *Proceedings of the Fifth International Conference on Software Engineering and Knowledge Engineering*, San Francisco, CA, 16-18 June 1993, pp. 225-227.

106. D. Dampier, Luqi, and V. Berzins, "Automated Merging of Software Prototypes", *Proceedings of the Fifth International Conference on Software Engineering and Knowledge Engineering*, San Francisco, CA, 16-18 June 1993, pp. 604-611.

107. Luqi, "Software Reuse without Reading Code", *Proceedings of 2nd International Workshop on Software Reusability*, Lucca, Italy, 24-26 March 1993.

108. B. Ramesh and Luqi, "Process Knowledge Based Rapid Prototyping for Requirements Engineering", *Proceedings of IEEE/ACM International Symposium on Requirements Engineering*, San Diego, CA, January 1993, pp. 248-255.

109. Luqi, "How to Use Prototyping for Requirements Engineering", *Proceedings of IEEE/ACM Symposium on Requirements Engineering*, San Diego, CA, January 1993, pp. 229.

110. Luqi, M. Shing, P. Barnes, and G. Hughes, "Prototyping Hard Real-Time Ada Systems in a Classroom Environment", *Proceedings of ACM 7th Annual Ada Software Engineering Education and Training Symposium*, Monterey, CA. 12-14 January 1993, pp. 103-117.

111. P. Loucopoulos, C. Potts, S.J. Mellor, J.A. McDermid, Luqi, and L Zucconi, "I Never Knew my Requirements were Object-Oriented Until I Talked to my Analyst", *Proceedings of IEEE/ACM International Symposium on Requirements Engineering,* 1993, pp. 226-230.

112. D. Dampier and Luqi, "Automated Software Maintenance Using Comprehension and Specification", *Proceedings of International Workshop on Program Comprehension*, IEEE/ACM Software Maintenance Conference, Orlando, FL, 9-12 November 1992, pp. 24-26.

113. Y. Lee and Luqi, "Controlling an Autonomous Underwater Vehicle Using an Expert System", *Proceedings of the Second International Conference on Automation, Robotics and Computer Vision,* Singapore, 15-18 September 1992, Vol. 3, pp. AI.3.6.1-AI.3.6.6.

114. Luqi and D. Cooke, "The Management of Uncertainty in Software Development", *Proceedings of COMPSAC 92*, Chicago, IL, 21-25 September 1992, pp. 381-386.

115. Luqi and Y. Lee, "Towards Automated Retrieval of Reusable Software Components", *Proceedings of the AAAI Workshop on Artificial Intelligence and Automated Program Understanding*, San Jose, CA, 13 July 1992, pp. 85-88.

116. Luqi, G. Hughes, J. Schweiger, and C. Jones, "Ada Software Prototyping of C3I Systems", *Proceedings of the 1992 Symposium on Command and Control Research*, Monterey, CA, 10-11 June 1992, pp. 266-278.

117. V. Berzins, D. Cooke, Luqi, and M. Tanik, "Workshop on Software Automation", *Proceedings of the IEEE/ACM Second International Conference on Systems Integration*, Morristown, NJ, 15-18 June 1992, pp. 720-722.

118. Luqi, "Computer Aided System Prototyping", *Proceedings of Third International Workshop on Rapid System Prototyping*. Research Triangle Park, NC, 23-25 June 1992, pp. 50-57.

119. Luqi, "Computer-Aided Prototyping of Real-Time Systems", Presented at the *AFOSR/ARO/ONR Research Review on Formal Methods in Software Engineering: Concurrent and Real-Time Systems,* Monterey, CA, 20-22 May 1992.

120. R. Steigerwald, Luqi, and V. Berzins, "A Tool for Reusable Software Component Retrieval via Normalized Specifications", *Proceedings of the Hawaii International Conference on System Sciences*, Koloa, HI. 7-10 January 1992, Vol. 2, pp. 18-26.

121. Luqi and R. Steigerwald, "Rapid Software Prototyping", *Proceedings of the Hawaii International Conference on System Sciences*, Koloa, HI, 7-10 January 1992, Vol. 2, pp. 470-479.

122. V. Berzins, Luqi, and Y. Lee, "Applications and Meaning of Inheritance in Software Specifications", *Proceedings of the Hawaii International Conference on System Sciences*, Koloa, HI, 7-10 January 1992, Vol. 2, pp. 64-73.

123. Luqi and J. McDowell, "Software Reuse in Specification-Based Prototyping", *Proceedings of the 4th Annual Software Reuse Workshop*, Herndon, VA, 18-22 November 1991, pp. 1-7.

124. Luqi, R. Steigerwald, G. Hughes, and V. Berzins, "CAPS as a Requirements Engineering Tool", *Proceedings of Tri-Ada Conference*, San Jose, CA, 21-25 October 1991, pp. 75-83.

125. Y. Lee, Luqi, and R. McGhee, "Automating the Construction of Real-Time Software for an Autonomous Underwater Vehicle through Prototyping", *Proceedings of the Seventh International Symposium on Unmanned Untethered Submersible Technology*, Durham, NH, 23-25 September 1991, pp. 564-574.

126. Luqi, G. Hughes, and J. Schweiger, "Ada Software Prototypes of C3I Systems", *Proceedings of 1991 Systems Design Synthesis Technology Workshop*, Silver Springs, MD, 10-13 September 1991, pp. 67-73.

127. Luqi, V. Berzins, U. Kodres, and Y. Lee, "Prototyping a Low Cost Tactical Display System", *Proceedings of ONT/NSWC Systems Evaluation and Assessment Technology Workshop,* Silver Springs, MD, August 1991, pp. 23-30.

128. R. Steigerwald, Luqi, and J. McDowell, "A CASE Tool for Reusable Software Component Storage and Retrieval in Rapid Prototyping", *Proceedings of Third International Conference on Software Engineering and Knowledge Engineering*, Skokie, IL, 27-29 June 1991, pp. 34-39.

129. Luqi, R. Steigerwald, G. Hughes, F. Naveda, and V. Berzins, "CAPS as a Requirements Engineering Tool", *Proceedings of Requirements Engineering and Analysis Workshop*, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA, 12-14 March 1991, pp. 1-8.

130. T. Bihari, R. McGhee, Luqi, and Y. Lee, "Applying a Computer Aided Prototyping System to the Software of an Autonomous Underwater Vehicle", Position paper at *Workshop on Software Tools for Distributed Intelligent Control*, Pacifica, CA. 17-19 July 1990.

131. Luqi, P. Barnes, and M. Zyda, "Graphical Support for Reducing Information Overload in Rapid Prototyping", *Proceedings of 23rd Annual Hawaii International Conference on System Sciences*, Kailua-Kona, HI, 2-5 January 1990, Vol. 2, pp. 514-522. *(An initial version of this paper appeared as NPS TR 52-89-028.)*

132. B. Kraemer and Luqi, "Petri Net-Based Models of Software Engineering Processes", *Proceedings of 23rd Annual Hawaii International Conference on System Sciences,* Kailua-

Kona, HI. 2-5 January 1990, Vol. 2, pp. 104-112. *(An initial version of this paper appeared as NPS TR 52-90-011.)*

133. Luqi, "Rapid Software Prototyping", *Proceedings of 23rd Annual Hawaii International Conference on System Sciences*, Kailua-Kona, HI, 2-5 January 1990, Vol. 2, pp. 198-201.

134. B. Kraemer and Luqi, "Specification-Based Software Construction", *Proceedings of 23rd Annual Hawaii International Conference on System Sciences*, Kailua-Kona, HI, 2-5 January 1990, pp. 150-152.

135. V. Berzins Y. Lee, and Luqi, "Generating Displays for Specifications Using Attribute Grammars", *Proceedings of IEEE COMPSAC 89*, Orlando, FL, 20-22 September 1989, pp. 596-602.

136. Luqi and Y. Lee, "Interactive Control of Prototyping Process", *Proceedings of IEEE COMPSAC 89*, Orlando, FL, 20-22 September 1989, pp. 447-454. *(An initial version of this paper appeared as NPS TR 52-89-025.)*

137. G. Lundy and Luqi, "Specification of a Token Ring Protocol Using Systems of Communicating Machines", *Proceedings of IEEE Conference on Systems Design and Networks*, Santa Clara, CA, May 1989, pp. 9-16. *(An initial version of this paper appeared as NPS TR 52-89-024.)*

138. Luqi, "Handling Timing Constraints in Rapid Prototyping", *Proceedings of the 22nd Annual Hawaii International Conference on System Sciences*, Kailua-Kona, HI, 3-6 January 1989, pp. 417-424. *(An initial version of this paper appeared as NPS TR 52-88-036.*

139. Luqi and V. Berzins, "Execution of a High Level Real-Time Language", *Proceedings of IEEE 9th Real-Time Symposium*, Huntsville, AL, 6-8 December 1988, pp. 69-76. *(An initial version of this paper appeared as NPS TR 52-88-035.)*

140. V. Berzins and Luqi, "Semantics of a Real-Time Language", *Proceedings of IEEE 9th Real-Time Symposium*, Huntsville, AL, 6-8 December 1988, pp. 106-110. *(An initial version of this paper appeared as NPS TR 52-88-033.)*

141. D. Janson and Luqi, "A Static Scheduler for the Computer Aided Prototyping System", *Proceedings of the 3rd Annual COMPASS Conference*, Gaithersburg, MD, 27 June - 1 July 1988, pp. 92-98. *(An initial version of this paper appeared as NPS TR 52-88-020.)*

142. Luqi, "Specification Languages in Computer Aided Software Engineering", *Proceedings of IEEE Conference on Systems Design and Networks*, Santa Clara, CA, 19-21 April 1988, pp. 27-34. *(An initial version of this paper appeared as NPS TR 52-88-005.)*

143. Luqi, "Normalized Specifications for Identifying Reusable Software", *Proceedings ACM-IEEE Computer Society 1987 Fall Joint Computer Conference*, Dallas, TX, 25-29 October 1987, pp. 46-49. *(An initial version of this paper appeared as NPS TR 52-87-007.)*

144. Luqi and M. Ketabchi, "A Computer Aided Prototyping System", *Proceedings of ACM First International Workshop on Computer-Aided Software Engineering*, Cambridge, MA, 27-29 May 1987, Vol. 2, pp. 722-731. *(An initial version of this paper appeared as NPS TR 52-87-011.)*

145. Luqi, "Execution of Real-Time Prototypes", *Proceedings of ACM First International Workshop on Computer-Aided Software Engineering*, Cambridge, MA, 27-29 May 1987, Vol. 2, pp. 870-884. *(An initial version of this paper appeared as NPS TR 52-87-012.)*

PRESENTATIONS AND INVITED TALKS:

1. Luqi, "Documentation Driven Agile Development for Systems of Embedded Systems", Monterey Workshop Series: Workshop on Software Engineering for Embedded Systems: From Requirement to Implementation, Chicago, IL, September 24-26, 2003.

2. V. Berzins, Y. Qiao, and Luqi, "Information Consistency Checking for Documentation Driven Development for Complex Embedded Systems", Monterey Workshop Series: Workshop on Software Engineering for Embedded Systems: From Requirement to Implementation, Chicago, IL, September 24-26, 2003.

3. Luqi, X. Liang, M. Brown, and C. Williamson, "Formal Approach for Software Safety analysis and Risk Assessment Via an Instantiated Activity Model", 21st International System Safety Conference, Ottawa, Ontario, Canada, August 4-8, 2003.

4. X. Liang, J. Puett, V. Berzins, and Luqi, "Synthesizing Architectural Approach via a Compatible Composition Model", International Conference on Computer, Communication and Control Technologies, Orlando, FL, USA, July 31, August 1-2, 2003.

5. Luqi and Z. Guan, "A Software Engineering Tools for Requirement Document based Prototyping", 7th World Multiconference on Systemics, Cybernetics and Infromatics, Orlando, Florida, USA, July 27 - 30, 2003, Volume VI.

6. X. Liang, J. Puett and Luqi, "Synthesizing Approach for Perspective-based Architecture Design", 14th IEEE International Workshop on Rapid System Prototyping, San Diego, USA, June 9-11, 2003.

7. Luqi, M. Shing, J. Puett, V. Berzins, Z. Guan, Y. Qiao, L. Zhang, N. Chaki, X. Liang, W. Ray, M. Brown and D. Floodeen, "Comparative Rapid Prototyping, A Case Study", 14th IEEE International Workshop on Rapid System Prototyping, San Diego, USA, June 9-11, 2003.

8. Luqi and Z. Guan, "A Computer Tool for Modeling C4I Applications", 8th International Command and Control Research and Technology Symposium, Washington, DC, June 17-19, 2003. (No page number used)

9. Luqi, "Computational Model for High-Confidence Embedded System Development", Monterey Workshop --- Radical Innovations of Software and Systems Engineering in the Future, Venice, Italy, 7-11 October, 2002.

10. Luqi, " High-confidence Information Infrastructure (HCII) for E-Government", 3rd High-Level Forum on City Informatization in the Asia-Pacific Region, Shanghai, China, June, 2002.

11. W. Ray, V. Berzins, and Luqi. "Optimizing Systems by Work Schedules (a Stochastic Approach)", Workshop on Software Performance (WOSP '2002), Rome, Italy. 23-26 July 2002.

12. Luqi, "Technologies for High Confidence Embedded Systems Development", Georgia Tech ARO meeting on High Confidence Embedded Systems, Atlanta, GA. 30-31 May 2002.

13. M. Saboe and Luqi, "A Software Technology Transition Engine", 8th Monterey Workshop "Engineering Automation for Software Intensive System Integration" (Monterey Workshop 2001), Monterey, CA. 18-22 June 2001.

14. Luqi, "SEAC & Software Engineering Advisory Board Session with SE Faculty and Ph.D. Students", 8th Monterey Workshop "Engineering Automation for Software Intensive System Integration" (Monterey Workshop 2001), Monterey, CA. 18-22 June 2001.

15. Luqi, "Engineering Automation for Computer-Based Systems", ARO/NSF/DARPA Workshop on Engineering Automation of Computer Based Systems, Carmel, CA. 26-29 October 1998.

16. Luqi, "Software Automation for Control Systems", Workshop on Software Design Automation for Reactive Systems, Research Triangle Park, NC. 15-16 July 1998.

17. Luqi, "Engineering Automation for Computer Based Systems", Workshop on Virtual Universities, Newport Beach, CA. 4 November 1997.

18. Luqi, "Computer-Aided Software Prototyping", Czech Technical University, Prague, Czech Republic. 25 October 1997.

19. Luqi, "Formal Models and Prototyping", ARO workshop on Requirements Targeting Software and Systems Engineering, Bernreid, Germany. 13 October 1997.

20. Luqi, "Computer-Aided Software Prototyping", University of Genova, Italy. 25 June 1997.

21. Luqi, "Computer-Aided Software Prototyping", Stanford University, CA. 2 May 1997.

22. V. Berzins and Luqi, "Computer-Aided Prototyping of Real-Time Systems", University of Science and Technology, Hong Kong. 16 December 1996.

23. Luqi, "Models, Languages, and Tools for Software Automation", International Technological University, San Jose, CA. 6 November 1996.

24. Luqi, "Software Architecture for Systematic System Development", Jiaotong University, Shanghai, China. 4 October 1996.

25. Luqi, "Multi-Level Filtering for Software Component Retrieval", C.V. Ramamoorthy Workshop on Advances in Computer Science and Engineering, University of California, Berkeley, CA. 4 May 1996.

26. Luqi, "A Machine-Based Software Engineering Paradigm", Invited talk, Army Research Program Review, Research Triangle Park, NC. 16-17 May 1996.

27. Luqi, "Logic, Software Engineering and Prototyping", Logic and Software Engineering Workshop, Software Institute, National Academy of Science, Beijing, China. 15 August 1995.

28. Luqi, "Software Trends, Perspectives and Investment Strategies", National Science Foundation of China, Beijing. 17 August 1995.

29. Luqi, "Research and Development in Computer Aided Prototyping", Jiaotong University, Shanghai, China. 24 August 1995.

30. Luqi, "Computer-Aided Software Prototyping", Fudan University, Shanghai, China.   25 August 1995.

31. Luqi, "Software Engineering and Prototyping", Nanjing University, Nanjing, Jiangsu, China. 29 August 1995.

32. Luqi, "Rapid Simulation as a Tool in Safety Analysis", Software Safety Symposium, Naval Information System Management Center, Crystal City, Washington, DC. 24 March 1995.

33. Luqi, "Software Engineering Education at NPS", Joint Logistics Command Software Education Workshop, Crystal City, Washington, DC. 22 February 1995.

34. Luqi, "Software Architectures in Specification-Based Prototyping", Presented at the ARPA Software Composition Workshop, Santa Fe, NM. 16 November 1994.

35. Luqi, "Computer Aided Prototyping as a Requirements Tool", Invited Keynote Speaker at the 3rd International Conference on Systems Integration, Säo Paulo, Brazil. 18 August 1994.

36. Luqi, "Computer-Aided Prototyping - Status and Experiments", Presented at Toshiba, Tokyo, Japan. 10 November 1993.

37. Luqi, "Combining Abstractions and Experiments in Software Prototyping", Presented at Oxford University, UK. 23 November 1993.

38. Luqi, "Computer Aided Prototyping for Real-Time Systems", Presented at GMD, Bonn, Germany. 23 April 1993.

39. Luqi, "Prototyping for Real-Time Systems", Distinguished lecture at IEEE local chapter, Orlando, FL. 18 March 1993.

40. Luqi, "Process Knowledge Based Rapid Prototyping for Requirements Engineering", Panel at EEE/ACM Symposium on Requirements Engineering, San Diego, CA. January 1993.

41. Luqi, "Computer Aided Prototyping for Software Development", Presented at the Software Automation Workshop in the IEEE/ACM Second International Conference on Systems Integration, Morristown, NJ. 15 June 1992.

42. Luqi, "Computer Aided Prototyping for Real-Time Systems", Presented at the IBM Research Center, Hawthorne, NY. 16 June 1992.

43. Luqi, "Computer Aided Prototyping of Real-Time Systems", Presented at the AFOSR/ARO/ONR Research Review on Formal Methods in Software Engineering: Concurrent and Real-Time Systems, Monterey, CA. 20-22 May 1992.

44. Luqi, "Systematic Development of Real-Time Systems", Presented at Naval Research Lab, November 1991.

45. Luqi, "PSDL Specification of a Real-Time Dining Philosophers Problem", Presented at the International Workshop on Software Specification and Design, Como, Italy. October 1991.

46. Luqi, Seminar on Real-Time Software Development Methods for NRL, Washington, DC. September 1991.

47. Luqi, "Computers and Software", Presentation at USMC General Officer Symposium, Monterey, CA. 23-26 September 1991.

48. Luqi, "Rapid Prototyping of Real-Time Systems", Invited talk at University of Colorado, Colorado Springs, CO. April 1991.

49. Y. Lee, Luqi, and R. McGhee, "Automating the Construction of Real-Time Intelligent Software for an Autonomous Underwater Vehicle through Knowledge Based Prototyping", Presented at Workshop in 7th IEEE Conference on AI Applications, Miami Beach, FL. 24-28 February 1991.

50. Luqi, "Rapid Prototyping of Real-Time Systems", Invited talk at HP by NASA Ames Real-Time Interest Group and IEEE Santa Clara Real-Time Group. 18 June 1990.

51. Luqi, "Rapid Prototyping of Real-Time Systems", Invited talk at Research Seminar, Department of Electrical Engineering And Computer Science, University of California, Berkeley, CA. 7 May 1990.

52. Luqi, "Rapid Prototyping of Real-Time Systems", Invited talk at Boston University, MA. March 1990.

53. Luqi, "Rapid Prototyping of Real-Time Systems", Invited talk at OACIS-Oregon State Software Industrial Consortium, Beaverton. March 1990.

54. Luqi, "Rapid Prototyping of Real-Time Systems", Invited talk at Computer Science Department, Oregon State University, Corvallis. March 1990.

55. V. Berzins, R. Kopas, Luqi, and A. Yehudai, "Using Transformations for Specification-Based Prototyping", Presented to IFIP Working Group 2.4, Warsaw. September 1989.

56. Luqi, "Computer-Aided Prototyping of Embedded Software Systems", Invited talk at University of Minnesota, Minneapolis. March 1989.

57. Luqi, "Rapid Prototyping in Real-Time Systems", Invited Panelist in the Minitrack on Hard Real-Time Systems, 22nd Annual Hawaii International Conference on System Sciences, Kailua-Kona, HI. January 1989.

58. V. Berzins and Luqi, "Graphical Tools for a Computer Aided Prototyping System", Presented at the 22nd Annual Hawaii International Conference on System Sciences, Kailua-Kona, HI. January 1989.

59. Luqi, "Modeling, Specification, and Design of Real-Time Systems", Invited talk at Computer Science Department, New Jersey Institute of Technology. December 1988.

60. Luqi, "CASE Tools for Rapid Prototyping", Presented at AACP 1987 Winter Technical Conference, Arlington, TX. November 1987.

61. Luqi, "Rapid Prototyping of Large Ada Systems", Research Center, Hewlett-Packard, Inc., Palo Alto, CA. September 1986.

BOOKS AND MISCELLANEOUS PUBLICATIONS:

1. N. Cheng, V. Berzins, Luqi, and S. Bhattacharya, "Java Wrappers for Automated Interoperability", in *Databases in Networked Information Systems,* Vol. 1966 of Springer Lecture Notes in Computer Science, pp. 45-64, 2001.

2. Luqi and M. Shing, "Rapid Prototyping", *Encyclopedia of Software Engineering*, John Wiley & Sons, Second Edition, ISBN 0-471-37737-6. 2001.

3. Luqi, "Formal Models and Prototyping", *RTSE '97 – Workshop on Requirements Targeting Software and Systems Engineering*. Eds. M. Broy and B. Rumpe, TUM-I9807, April 1998, pp. 183-194.

4. Luqi, "Requirements Targeting Software and Systems Engineering", *Lecture Notes in Computer Science,* Springer-Verlag, Vol. 1526, ISBN 3-540-65309-0, 1998, pp. 183-194.

5. V. Berzins and Luqi, "Logic, Software Engineering, and Prototyping", *Logic and Software Engineering*, World Scientific. 1996.

6. Luqi, "A Graph Model for Software Evolution", *Software Change Impact Analysis*, IEEE Computer Society, 1996.

7. Luqi, "A Graph Model for Software Evolution", *IEEE Computer Society Press Tutorial: Software Merging and Slicing*, May 1995, pp. 202-212.

8. V. Berzins, D. Dampier, and Luqi, "Automated Merging of Software Prototypes", *IEEE Computer Society Press Tutorial: Software Merging and Slicing*, May 1995, pp. 213-229.

9. V. Berzins, Luqi, and M. Shing, "An Automated Prototyping Tool for System Development and Acquisition", <u>*NetFocus*</u>. No. 211, May 1995, pp. 2-3.

10. J. Brockett and Luqi, "Software Evolution", *Proceedings of Increasing the Practical Impact of Formal Methods in Computer-Aided Software Development*, Monterey Workshop 94, September 1994.

11. V. Berzins, Luqi, and M. Shing, "Software Evolution", *Proceedings of Increasing the Practical Impact of Formal Methods in Computer-Aided Software Development*, Monterey Workshop 94, September 1994.

12. Luqi, "The Role of Prototyping Languages in Computer Aided Software Engineering", *The Impact of CASE Technology on Software Processes*, Editor: D. Cooke, World Scientific Publishing, 1994, pp. 49-71.

13. Luqi, "Computer-Aided Prototyping for a Command-and-Control System Using CAPS", *Software Automation*, Editor: D. Cooke, World Scientific Publishing, 1994.

14. Luqi and R. Yeh, "Rapid Prototyping in Software Development", *Encyclopedia of Software Engineering*, John Wiley & Sons, Inc. 1994, pp. 1-21.

15. D. Dampier and Luqi, "Software Slicing, Merging and Integration", *Proceedings of Increasing the Practical Impact of Formal Methods in Computer-Aided Software Development,* Monterey Workshop 93, October 1993.

16. M. Ketabchi and Luqi, "A Computer Aided Prototyping System", Editor: E. Chikofsky. *Computer-Aided Software Engineering (CASE),* IEEE Computer Technology Series, 1988, 89-95, *Computer-Aided Software Engineering (CASE),* Editor: E. Chikofsky, Second edition, 1993.

17. Luqi, "Knowledge-Based Support for Rapid Prototyping", *Source Book of Applied Artificial Intelligence,* McGraw-Hill, 1992.

18. Luqi and M. Shing, "CAPS - A Tool for Real-Time System Development and Acquisition", *Quarterly Review*, Office of Naval Research, Vol. XLIV, No. 1, 1992, pp. 12-16.

19. V. Berzins and Luqi, *Software Engineering with Abstractions: An Integrated Approach to Software Development using Ada*. Addison-Wesley Publishing Company, ISBN 0-201-08004-4, Reading, MA. 1991.

20. V. Berzins and Luqi, "Languages for Specification, Design and Prototyping", *Handbook of Computer-Aided Software Engineering.* Van Nostrand Reinhold Company, Inc., 1989: pp. 83-118.

21. Luqi, "Rapid Prototyping for Large Software System Design", Ph.D. Thesis, Computer Science Department, University of Minnesota, 1986.

22. Luqi, *Table of FORTRAN Statements*, Chapters 1-3, Appendix A, "Numerical Algorithms and their FORTRAN Implementations", *FORTRAN Programming* Appendix G: 1st Edition, Post Press of China, 1980.

23. Luqi, *FORTRAN Numerical Methods Library*. Vol. 1. *User Manual and Descriptions of Numerical Methods,* Vol. 2. *FORTRAN Subroutines,* Physics Institute, Science Academy of China, 1978. *(Copies distributed at the 1978 National Conference on Numerical Analysis, Beijing, China.)*